

PRAIRIE CHICKEN & SHARP-TAILED GROUSE

Historically, these two species, plus ruffed grouse, have been combined under the name "Prairie Grouse." In these reports, harvest estimates for these species were combined. In 2006, hunters were asked specifically how many of each species were harvested of the total harvest and 76% were identified as sharp-tailed grouse, 20% as prairie chickens, and 4% were unknown. They continue to be combined for the overall harvest estimates in this report.

The 2018 grouse season covered 15 September 2018 – 6 January 2019 statewide. Harvest surveys were sent to both resident and nonresident hunters. The daily limit was 3 birds, possession 15. To hunt grouse residents required to hold small game, 1-day small game, adult, senior or junior combination, or youth small game licenses; nonresidents were required to obtain adult or youth small game or nonresident shooting preserve licenses. Harvest surveys were sent to both resident and nonresident hunters. No shooting preserve license holders were surveyed and none of their harvest is included in any of the data in this report.

In 2018, there were 82,994 resident and 72,746 nonresident licenses issued that allowed holders to hunt grouse. Approximately 10% of residents and nonresidents were surveyed for the upland bird seasons. Survey response rates were 60% for residents and 60% for nonresidents.

Based on survey responses indicating at least one day of hunting grouse, there were a projected 5,868 resident and 3,979 nonresident grouse hunters. A projected total of 23,860 grouse were harvested (16,431 by residents, 7,429 by nonresidents) during the 2018 season.

When asked their satisfaction on the season, (1 being very dissatisfied, and 7 being very satisfied), resident upland bird hunters reported an average rating of 4.64 while nonresidents reported a rating of 5.38.

Comparison of the 2009 - 2018 prairie grouse season statistics

| Year | Residents | | | | | Nonresidents | | | | |
|-------------|------------------|----------------|-----------------------|----------------|---------------------|---------------------|----------------|-----------------------|----------------|---------------------|
| | Hunters | Harvest | Ave Day Hunted | Ave Bag | Satisfaction | Hunters | Harvest | Ave Day Hunted | Ave Bag | Satisfaction |
| 2009 | 6,377 | 26,018 | 4.41 | 4.08 | 4.93 | 4,571 | 12,662 | 4.19 | 2.77 | 5.59 |
| 2010 | 7,879 | 39,868 | 4.49 | 5.06 | 5.20 | 5,386 | 17,020 | 3.92 | 3.16 | 5.88 |
| 2011 | 6,789 | 27,581 | 4.19 | 4.09 | 4.78 | 6,407 | 20,718 | 4.01 | 3.26 | 5.63 |
| 2012 | 7,197 | 31,223 | 4.68 | 4.38 | 4.65 | 7,037 | 19,005 | 3.83 | 2.70 | 5.14 |
| 2013 | 7,149 | 19,858 | 4.28 | 2.76 | 4.11 | 4,523 | 7,840 | 3.87 | 1.73 | 4.95 |
| 2014 | 6,503 | 25,847 | 4.55 | 4.01 | 4.85 | 4,254 | 9,943 | 3.99 | 2.31 | 5.52 |
| 2015 | 7,866 | 34,506 | 4.72 | 4.40 | 4.98 | 5,032 | 15,388 | 4.05 | 3.08 | 5.49 |
| 2016 | 7,199 | 31,611 | 4.88 | 4.40 | 4.72 | 5,203 | 11,294 | 4.04 | 2.18 | 5.43 |
| 2017 | 5,703 | 15,863 | 4.57 | 2.80 | 4.23 | 3,645 | 6,290 | 3.81 | 1.73 | 5.06 |
| 2018 | 5,868 | 16,431 | 4.36 | 2.83 | 4.64 | 3,979 | 7,429 | 4.08 | 4.87 | 5.38 |

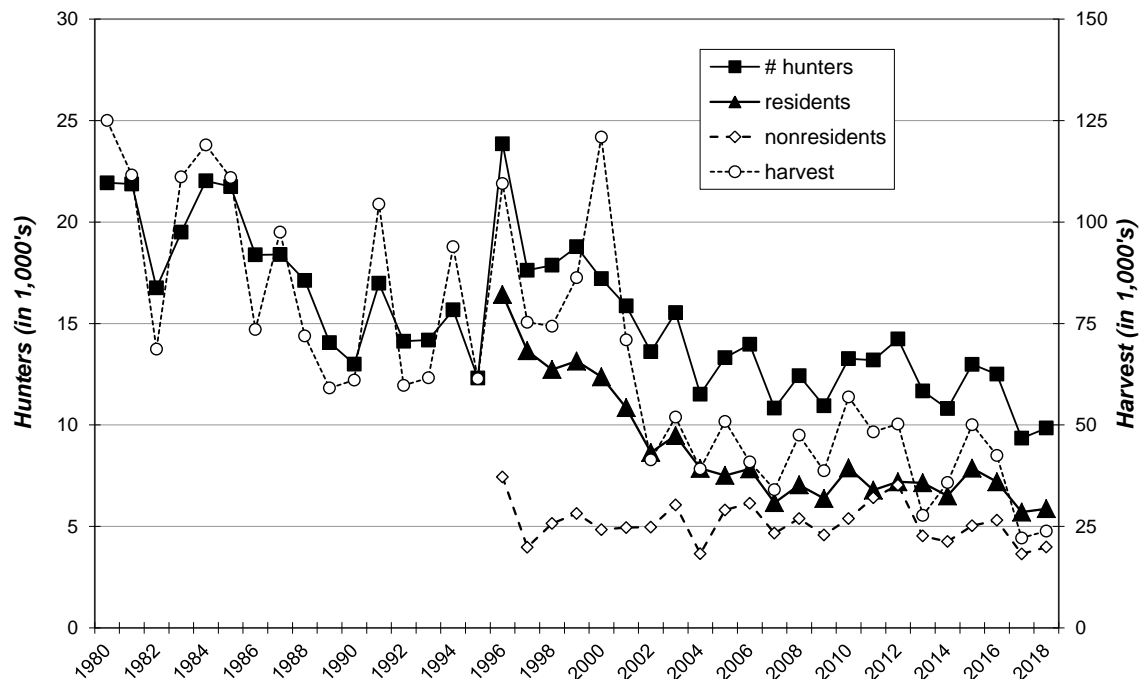
PRAIRIE GROUSE HARVEST PROJECTIONS FOR 2018

Revised:
5/13/2019

| | RESIDENT TOTALS BY LICENSE TYPE | | | | | | NONRESIDENT TOTALS | | |
|--|---------------------------------|--------------|--------------|---------------|--------------|---------------|--------------------|---------------|---------------|
| | Combo | Junior Combo | Senior Combo | Small Game | Youth SmGm | Sum Estimates | Nonres Sm Game | Youth Sm Game | Sum Estimates |
| Licenses Sold | 45,327 | 7,069 | 9,423 | 17,059 | 4,116 | 82,994 | 70,843 | 1,903 | 72,746 |
| Projected ACTIVE UPLAND BIRD HUNTERS | 28,373 | 3,549 | 4,962 | 13,917 | 3,261 | 54,062 | 67,726 | 1,718 | 69,444 |
| Number Sampled by Survey | 4,311 | 598 | 884 | 1,626 | 378 | 7,797 | 7,611 | 200 | 7,811 |
| Number Responded to Survey | 2,612 | 247 | 752 | 809 | 236 | 4,656 | 4,565 | 110 | 4,675 |
| % Responded and Participated in Season | 63% | 50% | 53% | 82% | 79% | 64% | 97% | 92% | 97% |
| Responded and Participated in Season | 1,635 | 124 | 396 | 660 | 187 | 3,002 | 4,450 | 101 | 4,551 |
| Responded but DID NOT HUNT | 977 | 123 | 356 | 149 | 49 | 1,654 | 115 | 9 | 124 |
| Survey Response Rate | 60.6% | 41.3% | 85.1% | 49.8% | 62.4% | 59.7% | 60.0% | 55.0% | 59.9% |
| No. Hunters Reporting Prairie Grouse Days | 220 | 7 | 53 | 43 | 16 | 339 | 257 | 4 | 261 |
| Sum Prairie Grouse Hunted Days | 976 | 52 | 194 | 173 | 84 | 1,479 | 1,056 | 8 | 1,064 |
| Average Days Hunted Prairie Grouse | 4.44 | 7.43 | 3.66 | 4.02 | 5.25 | 4.36 | 4.11 | 2.00 | 4.08 |
| Sum Prairie Grouse Bagged | 708 | 9 | 133 | 83 | 27 | 960 | 487 | 1 | 488 |
| Average Season Prairie Grouse Bag | 3.22 | 1.29 | 2.51 | 1.93 | 1.69 | 2.83 | 1.89 | 0.25 | 1.87 |
| Projected Days Prairie Grouse Hunting | 16,937 | 1,488 | 2,431 | 3,648 | 1,465 | 25,969 | 16,072 | 136 | 16,208 |
| Projected No. Prairie Grouse Hunters | 3,818 | 200 | 664 | 907 | 279 | 5,868 | 3,911 | 68 | 3,979 |
| Projected Prairie Grouse Bag | 12,286 | 258 | 1,667 | 1,750 | 471 | 16,431 | 7,412 | 17 | 7,429 |
| TOTAL PRAIRIE GROUSE HARVEST = | | | | | | | 23,860 | | |
| Upland Bird Hunters Mean Satisfaction Score * | 4.64 | 4.83 | 4.26 | 4.81 | 4.68 | 4.64 | 5.38 | 5.43 | 5.38 |

* Based on scale of 1-7 with 1="very dissatisfied" and 7="very satisfied"

PRAIRIE GROUSE HUNTERS & HARVEST 1980-2018



Resident Grouse Harvest Distribution by County 2018

| COUNTY | HUNTER DISTRIBUTION | | | | HARVEST DISTRIBUTION | | | | Birds/Hunter |
|----------------|---------------------|--------------|---------------|-----------------|----------------------|---------------|-------------|-----------------|--------------|
| | # Reported | # Projected | % of Total | # Proj w/ Unk * | # Reported | # Projected | % of Total | # Proj w/ Unk * | |
| Minnehaha | 1 | 17 | 0.3 | 18 | 1 | 17 | 0.1 | 18 | 1.0 |
| Pennington | 12 | 208 | 3.7 | 219 | 24 | 411 | 2.7 | 437 | 2.0 |
| Brown | 2 | 35 | 0.6 | 37 | 2 | 34 | 0.2 | 36 | 1.0 |
| Beadle | 1 | 17 | 0.3 | 18 | 0 | 0 | 0.0 | 0 | 0.0 |
| Codington | 4 | 69 | 1.2 | 73 | 6 | 103 | 0.7 | 109 | 1.5 |
| Brookings | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Yankton | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Davison | 1 | 17 | 0.3 | 18 | 0 | 0 | 0.0 | 0 | 0.0 |
| Lawrence | 3 | 52 | 0.9 | 55 | 3 | 51 | 0.3 | 55 | 1.0 |
| Aurora | 1 | 17 | 0.3 | 18 | 1 | 17 | 0.1 | 18 | 1.0 |
| Bennett | 6 | 104 | 1.9 | 110 | 17 | 291 | 1.9 | 310 | 2.8 |
| Bon Homme | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Brule | 6 | 104 | 1.9 | 110 | 7 | 120 | 0.8 | 128 | 1.2 |
| Buffalo | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Butte | 3 | 52 | 0.9 | 55 | 7 | 120 | 0.8 | 128 | 2.3 |
| Campbell | 1 | 17 | 0.3 | 18 | 5 | 86 | 0.6 | 91 | 4.9 |
| Charles Mix | 5 | 87 | 1.6 | 91 | 0 | 0 | 0.0 | 0 | 0.0 |
| Clark | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Clay | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Corson | 11 | 190 | 3.4 | 201 | 57 | 976 | 6.3 | 1,038 | 5.1 |
| Custer | 2 | 35 | 0.6 | 37 | 4 | 68 | 0.4 | 73 | 2.0 |
| Day | 4 | 69 | 1.2 | 73 | 5 | 86 | 0.6 | 91 | 1.2 |
| Deuel | 1 | 17 | 0.3 | 18 | 0 | 0 | 0.0 | 0 | 0.0 |
| Dewey | 14 | 242 | 4.4 | 256 | 57 | 976 | 6.3 | 1,038 | 4.0 |
| Douglas | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Edmunds | 2 | 35 | 0.6 | 37 | 5 | 86 | 0.6 | 91 | 2.5 |
| Fall River | 3 | 52 | 0.9 | 55 | 0 | 0 | 0.0 | 0 | 0.0 |
| Faulk | 2 | 35 | 0.6 | 37 | 3 | 51 | 0.3 | 55 | 1.5 |
| Grant | 5 | 87 | 1.6 | 91 | 2 | 34 | 0.2 | 36 | 0.4 |
| Gregory | 9 | 156 | 2.8 | 165 | 17 | 291 | 1.9 | 310 | 1.9 |
| Haakon | 13 | 225 | 4.0 | 238 | 51 | 873 | 5.7 | 929 | 3.9 |
| Hamlin | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Hand | 3 | 52 | 0.9 | 55 | 5 | 86 | 0.6 | 91 | 1.6 |
| Hanson | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Harding | 7 | 121 | 2.2 | 128 | 26 | 445 | 2.9 | 474 | 3.7 |
| Hughes | 10 | 173 | 3.1 | 183 | 13 | 223 | 1.4 | 237 | 1.3 |
| Hutchinson | 1 | 17 | 0.3 | 18 | 1 | 17 | 0.1 | 18 | 1.0 |
| Hyde | 5 | 87 | 1.6 | 91 | 10 | 171 | 1.1 | 182 | 2.0 |
| Jackson | 8 | 138 | 2.5 | 146 | 13 | 223 | 1.4 | 237 | 1.6 |
| Jerauld | 3 | 52 | 0.9 | 55 | 2 | 34 | 0.2 | 36 | 0.7 |
| Jones | 9 | 156 | 2.8 | 165 | 33 | 565 | 3.7 | 601 | 3.6 |
| Kingsbury | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Lake | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Lincoln | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Lyman | 22 | 381 | 6.9 | 402 | 81 | 1,386 | 9.0 | 1,476 | 3.6 |
| McCook | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| McPherson | 7 | 121 | 2.2 | 128 | 43 | 736 | 4.8 | 783 | 6.1 |
| Marshall | 4 | 69 | 1.2 | 73 | 7 | 120 | 0.8 | 128 | 1.7 |
| Meade | 21 | 364 | 6.5 | 384 | 43 | 736 | 4.8 | 783 | 2.0 |
| Mellette | 11 | 190 | 3.4 | 201 | 37 | 633 | 4.1 | 674 | 3.3 |
| Miner | 2 | 35 | 0.6 | 37 | 8 | 137 | 0.9 | 146 | 4.0 |
| Moody | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Perkins | 25 | 433 | 7.8 | 457 | 78 | 1,335 | 8.6 | 1,421 | 3.1 |
| Potter | 2 | 35 | 0.6 | 37 | 2 | 34 | 0.2 | 36 | 1.0 |
| Roberts | 4 | 69 | 1.2 | 73 | 13 | 223 | 1.4 | 237 | 3.2 |
| Sanborn | 1 | 17 | 0.3 | 18 | 0 | 0 | 0.0 | 0 | 0.0 |
| Spink | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Stanley | 33 | 571 | 10.3 | 603 | 94 | 1,609 | 10.4 | 1,712 | 2.8 |
| Sully | 6 | 104 | 1.9 | 110 | 1 | 17 | 0.1 | 18 | 0.2 |
| Tripp | 8 | 138 | 2.5 | 146 | 83 | 1,421 | 9.2 | 1,512 | 10.3 |
| Turner | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Union | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Walworth | 8 | 138 | 2.5 | 146 | 5 | 86 | 0.6 | 91 | 0.6 |
| Ziebach | 7 | 121 | 2.2 | 128 | 23 | 394 | 2.5 | 419 | 3.2 |
| Shannon | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Todd | 2 | 35 | 0.6 | 37 | 7 | 120 | 0.8 | 128 | 3.5 |
| Unknown | 18 | 312 | - | - | 58 | 993 | - | - | 3.2 |
| TOTALS: | 339 | 5,868 | 100.0% | 5,868 | 960 | 16,431 | 100% | 16,431 | 2.80 |

Last Revised: 22 May 2019

* Includes unknown county projection values by assuming unknown county values are distributed the same as reported county values. Total values may be different due to rounding.

** Calculation uses "# projected" values without correction for unknown/unreported county values.

Nonresident Grouse Harvest Distribution by County 2018

| COUNTY | HUNTER DISTRIBUTION | | | | HARVEST DISTRIBUTION | | | | Birds/Hunter |
|----------------|---------------------|--------------|-------------|-----------------|----------------------|--------------|-------------|-----------------|--------------|
| | # Reported | # Projected | % of Total | # Proj w/ Unk * | # Reported | # Projected | % of Total | # Proj w/ Unk * | |
| Minnehaha | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Pennington | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Brown | 1 | 15 | 0.4 | 16 | 0 | 0 | 0.0 | 0 | 0.0 |
| Beadle | 1 | 15 | 0.4 | 16 | 2 | 30 | 0.4 | 31 | 2.0 |
| Codington | 1 | 15 | 0.4 | 16 | 0 | 0 | 0.0 | 0 | 0.0 |
| Brookings | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Yankton | 1 | 15 | 0.4 | 16 | 3 | 46 | 0.6 | 46 | 3.0 |
| Davison | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Lawrence | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Aurora | 1 | 15 | 0.4 | 16 | 0 | 0 | 0.0 | 0 | 0.0 |
| Bennett | 2 | 30 | 0.8 | 31 | 1 | 15 | 0.2 | 15 | 0.5 |
| Bon Homme | 2 | 30 | 0.8 | 31 | 3 | 46 | 0.6 | 46 | 1.5 |
| Brule | 5 | 76 | 2.0 | 78 | 2 | 30 | 0.4 | 31 | 0.4 |
| Buffalo | 1 | 15 | 0.4 | 16 | 2 | 30 | 0.4 | 31 | 2.0 |
| Butte | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Campbell | 4 | 61 | 1.6 | 62 | 2 | 30 | 0.4 | 31 | 0.5 |
| Chas Mix | 5 | 76 | 2.0 | 78 | 5 | 76 | 1.0 | 77 | 1.0 |
| Clark | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Clay | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Corson | 11 | 168 | 4.3 | 172 | 24 | 365 | 5.0 | 370 | 2.2 |
| Custer | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Day | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Deuel | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Dewey | 21 | 320 | 8.2 | 328 | 68 | 1,035 | 14.1 | 1,048 | 3.2 |
| Douglas | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Edmunds | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Fall River | 1 | 15 | 0.4 | 16 | 2 | 30 | 0.4 | 31 | 2.0 |
| Faulk | 4 | 61 | 1.6 | 62 | 4 | 61 | 0.8 | 62 | 1.0 |
| Grant | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Gregory | 10 | 152 | 3.9 | 156 | 7 | 107 | 1.5 | 108 | 0.7 |
| Haakon | 8 | 122 | 3.1 | 125 | 19 | 289 | 3.9 | 293 | 2.4 |
| Hamlin | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Hand | 11 | 168 | 4.3 | 172 | 8 | 122 | 1.7 | 123 | 0.7 |
| Hanson | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Harding | 5 | 76 | 2.0 | 78 | 26 | 396 | 5.4 | 401 | 5.2 |
| Hughes | 16 | 244 | 6.3 | 250 | 46 | 700 | 9.5 | 709 | 2.9 |
| Hutchinson | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Hyde | 4 | 61 | 1.6 | 62 | 3 | 46 | 0.6 | 46 | 0.7 |
| Jackson | 1 | 15 | 0.4 | 16 | 6 | 91 | 1.2 | 92 | 6.0 |
| Jerauld | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Jones | 11 | 168 | 4.3 | 172 | 17 | 259 | 3.5 | 262 | 1.5 |
| Kingsbury | 1 | 15 | 0.4 | 16 | 1 | 15 | 0.2 | 15 | 1.0 |
| Lake | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Lincoln | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Lyman | 32 | 488 | 12.5 | 499 | 51 | 776 | 10.6 | 786 | 1.6 |
| McCook | 1 | 15 | 0.4 | 16 | 3 | 46 | 0.6 | 46 | 3.0 |
| McPherson | 6 | 91 | 2.4 | 94 | 3 | 46 | 0.6 | 46 | 0.5 |
| Marshall | 1 | 15 | 0.4 | 16 | 0 | 0 | 0.0 | 0 | 0.0 |
| Meade | 3 | 46 | 1.2 | 47 | 0 | 0 | 0.0 | 0 | 0.0 |
| Mellette | 1 | 15 | 0.4 | 16 | 1 | 15 | 0.2 | 15 | 1.0 |
| Miner | 1 | 15 | 0.4 | 16 | 0 | 0 | 0.0 | 0 | 0.0 |
| Moody | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Perkins | 16 | 244 | 6.3 | 250 | 40 | 609 | 8.3 | 616 | 2.5 |
| Potter | 5 | 76 | 2.0 | 78 | 9 | 137 | 1.9 | 139 | 1.8 |
| Roberts | 1 | 15 | 0.4 | 16 | 0 | 0 | 0.0 | 0 | 0.0 |
| Sanborn | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Spink | 1 | 15 | 0.4 | 16 | 1 | 15 | 0.2 | 15 | 1.0 |
| Stanley | 26 | 396 | 10.2 | 406 | 66 | 1,005 | 13.7 | 1,017 | 2.5 |
| Sully | 6 | 91 | 2.4 | 94 | 12 | 183 | 2.5 | 185 | 2.0 |
| Tripp | 9 | 137 | 3.5 | 140 | 8 | 122 | 1.7 | 123 | 0.9 |
| Turner | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Union | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Walworth | 9 | 137 | 3.5 | 140 | 17 | 259 | 3.5 | 262 | 1.9 |
| Ziebach | 7 | 107 | 2.7 | 109 | 16 | 244 | 3.3 | 247 | 2.3 |
| Shannon | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 |
| Todd | 2 | 30 | 0.8 | 31 | 4 | 61 | 0.8 | 62 | 2.0 |
| Unknown | 6 | 91 | - | - | 6 | 91 | - | - | 1.0 |
| TOTALS: | 261 | 3,979 | 100% | 3,979 | 488 | 7,429 | 100% | 7,429 | 1.87 |

Last Revised: 22 May 2019

* Includes unknown county projection values by assuming unknown county values are distributed the same as reported county values. Total values may be different due to rounding.

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